

The Pacific Commercial Advertiser

U. S. WEATHER BUREAU, SEPT. 15.—Last 24 hours' rainfall, .03. Temperature, Max. 82; Min. 74. Weather, variable.

SUGAR—96 Degree Test Centrifugals, 3.86c; Per Ton, \$77.20. 88 Analysis Beets 8s 6d; Per Ton, \$76.40.

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HONOLULU, HAWAII TERRITORY, SATURDAY, SEPTEMBER 16, 1905.

PRICE FIVE CENTS.

LITTLE FISH HERE TO KILL MOSQUITOES

Expert Alvin Seale Chosen by Dr. Jordan Comes With Top Minnows.

"STANFORD UNIVERSITY, September 7.—The government of Hawaii, having undertaken to destroy the troublesome foreign mosquitoes that infest the Islands through the agency of fishes, has commissioned a Stanford man to do the work. Alvin Seale, a zoology student, who will receive his degree in a few days, will do the work, which is attracting wide interest among the scientists of the country. The Hawaiian Government has decided to import a species of fish known as the poeciliidae, which thrives in the mud holes and bayous of the Southern United States, the breeding places of mosquitoes. In their native home these fishes breed very rapidly, and destroy vast numbers of mosquitoes. Whether they will continue this work of destruction in Hawaiian waters is not certain.

"Seale is at present in Southern Texas experimenting with the poeciliidae to determine the best means of transporting them to the Islands. They will be placed in the fresh water streams and ponds. Seale has done considerable important fish work in the past. For three years he traveled about the South seas collecting. Last year he worked with David Starr Jordan in the latter's investigation of Samoan fishes."

One of the Alameda's passengers yesterday was Alvin Seale, formerly of Bishop Museum, whose mission is described above.

Mr. Seale brought his mosquito-destroying fish through all right. They were landed from the Alameda "in first-class order and condition," as President Pinkham of the Board of Health yesterday afternoon informed an Advertiser reporter.

No time was lost in beginning a distribution of the fish. D. L. Van Dine, entomologist of the U. S. Experiment Station, who has taken a steady interest in the mosquito campaign from the start, assisted Mr. Seale in depositing a portion of the killifish—as their popular name goes—at Kapiolani Park and a greater portion at Moanalua.

And no time was lost by the mail-hini fishes in getting to work. Those put into the Moanalua ponds instantly on striking the strange water vigorously dashed after their prey. It was a sight, the way they gobbled up every nucleus of larvae.

"Mr. Seale and Mr. Van Dine will look over the islands for the waters in which these fish may be most advantageously placed, both for increase and for destruction of mosquito larvae," Mr. Pinkham stated.

Mr. Van Dine, having sought for further information on the interesting importation, showed the reporter specimens of three species of the fish preserved in vials. They are about an inch and a half long, grayish in color with variant markings. Their respective scientific names are *Gambusia affinis*, *Mollinisia latipinna* and *Fundulus heteroclitus*.

"Yes, the mosquito-feeding fish came through in fine shape," Mr. Van Dine said, "and have already eaten thousands of the young of our mosquitoes. I watched them eat several hundreds myself and am confident that if they can be established they are what we require."

"Of all natural enemies of mosquitoes certain fish are the only ones that it is practical to consider in the campaign against this pest. Some four years ago, when the work was first begun on the local problem, it was found that we had only the goldfish—with the possible exception of certain oopos or gobies—which fed upon mosquito larvae, and the matter was taken up with Dr. David Starr Jordan, the American authority on fishes."

"The matter was followed up carefully and when Dr. Jordan was down here recently on the sad mission related to Mrs. Stanford's death, it was further discussed and definite arrangements were made whereby an assistant of the United States Fish Commission could undertake the work if the Territory would see that funds, simply for the expenses of the undertaking, were forthcoming. The matter was presented to the Legislature with the endorsement of Governor Carter and the sum of \$1500 appropriated for the work. "Dr. Jordan, on being notified of this action on the part of the Territorial Government, selected Mr. Alvin Seale, a man of wide experience with the fish of tropical waters, to undertake the work. The highly successful introduction of the fish has proved the wisdom of Dr. Jordan's choice."

"Mr. Seale some two months ago started from Stanford University on his journey of collecting the fish and at once bumped into the rigid quaran-

tine in the state of Louisiana, the place from whence he originally intended to collect the desirable species. Failing to reach Louisiana he started from South Indiana, where he found the species he wanted, and worked from there south. His idea was to go as far south as he could in order that the temperature of the water where the fish were gathered would correspond more nearly with the waters of these islands. Here again Mr. Seale's knowledge of our local conditions was invaluable, since a sudden change of temperature from one water to another might bring disaster to the experiment.

"At Galveston, Texas, the proper conditions were found and, after experiments to decide the best conditions under which the fish could be transported, collections were made and the journey to these islands was begun. Three species of killies or top minnows were selected, not only because of their hardiness but especially from the fact that their food consists almost entirely of the larvae of mosquitoes. It was thought at first that he might be able to introduce some sticklebacks, but investigations proved that these species under certain conditions would feed on the eggs of other fish. The sticklebacks were therefore excluded from the collections.

"A nursery has been started at Moanalua, where the major portion of the fish was liberated. Some were planted in the lily pond at Waikiki and others in a special pond of brackish water in Kapiolani Park, where they will be under the care of Superintendent Young.

"I should like to say that I would be very sorry if the people of this Territory got the idea that these fish will relieve them of the responsibility of their own dooryards and premises. These fish are for the many ponds, pools, rice fields, taro patches, irrigation ditches, still streams and standing water in the outlying districts, and will insure freedom from invasions to the residential portions from those mosquito-breeding sources, after the various communities have freed their own houses and premises of inviting water containers."

"After the fish are established they will be distributed to the various districts of the islands."

GIRLS ON WAY HERE IN BLOOMERS

OMAHA, Neb., Sept. 8.—Clad in black silk bloomers and tailored cravette suits, with pockets galore, Louella Conley and Anna Pinch were in Omaha today on their way to San Francisco.

They expect to visit the Hawaiian Islands, Japan, the Philippines, Borneo, Australia, New Zealand, India, Persia, Africa, Spain, Norway, Sweden and Russia before returning to the States, five years hence. Both young women have had experience on Chicago papers, and they carry credentials from the mayor and postmaster of Chicago, Senator Culom and other prominent men. They also carry a sealed message from the Chicago Merchants' Association to the Merchants' Association of San Francisco. They have made arrangements with several American and English newspapers to receive travelogues from them as they journey.

"We have a typewriter, two extra good cameras, and two suit cases, but no money—that is, none to hurt," said one of them.

"They will avoid the beaten paths and endeavor to penetrate into the nooks and crevices of the earth to which no woman has before dared to enter. They wear knee-high boots."

Miss Conley is 25 and Miss Pinch is 22.

CRUISER OF ITALY IS HEADING FOR HONOLULU



PRINCE FERDINANDO OF SAVOY, WHO WILL VISIT HONOLULU.

The Italian Man-of-war Calabria, will soon visit Honolulu en route to the Orient. The vessel is now on the Coast. She is to remain in San Francisco and then sail for Honolulu, Australia, Borneo, Java, Philippine Islands, China, Japan and India and thence through the Suez Canal to Italy.

The vessel is commanded by Count Marengo di Moriondo, captain of frigates of the Italian navy, and has among her officers a member of the royal family of Italy, Prince Ferdinando of Savoy, who is a lieutenant of the vessel. He is the eldest son of the Admiral Prince Thomas, Duke of Genoa, and brother of the Queen Dowager Margherita, and commander in chief of the Italian navy.

Thus Prince Ferdinando is the nephew of Queen Margherita and cousin of King Victor Emmanuel III. He is also a cousin of the Duke of Abruzzi, the hero of the North Pole expedition, who visited Honolulu last year as the commander of the Italian cruiser Liguria. He was extensively entertained during his travels by the representatives of all nations, and was largely entertained in Honolulu.

Prince Ferdinando, who is but 22 years of age, is known for his exceptional attainments and immensely popular for his uniformly affable manner.

The Calabria left Italy for a cruise of the world, sailing from Venice February 4, 1905, and went directly to Buenos Ayres, Rio Janeiro, Montevideo, and through the straits to the Pacific, stopping at Lima, Valparaiso, Callao and Acapulco.

CONDENSED FROM THE COAST FILES

Adolph Weber, the murderer of his family, tried to escape from the jail at Auburn, Cal.

The Carnegie Steel Company has so many orders that it has retired from the market for a year.

Mrs. Martha Weeks of Washington, D. C., was so seriously scalded by falling into a hot water pool in Yellowstone Park that she died of her injuries.

Prospectors allege they have found broken up Wells-Fargo money chests in the diggings of "Cowboy Scotty," and assert that his money was originally the loot of highwaymen buried in the desert.

A great system of municipal docks, similar to those maintained in New York, to be leased to private firms at a good rental, is the latest municipal-ownership scheme of Mayor Dunne of Chicago.

The largest mortgage ever filed in San Francisco has just been recorded by the Southern Pacific Company covering all the company's property in three states to secure bonds amounting to \$160,000,000.

Senator Platt of New York has been sued for \$25,000 by Mae Catherine Wood of "Love Letters of a Boss" fame. She asks for payment for special services as attorney in express company negotiations.

Frank A. Maestretti, president of the San Francisco board of public works, has sued the Chronicle for \$375,000 for alleged libel. The suit is the second filed by Maestretti against the Chronicle for imputing subornation of perjury in election frauds.

George W. Hallock, city passenger agent in San Francisco of the Pacific Coast Steamship Company, has been expelled from the Transportation Club for cheating with marked cards. Hallock was almost elected president of the club some months ago.

Oregon's divorce record was broken in the State Circuit Court at Portland when Judge Cleland granted nineteen separations in two hours and a half. This was at the rate of one divorce every eight minutes. The record case was that of John Whan, a musician. His troubles occupied the court's attention just five minutes. The longest case took twelve minutes.

Three hundred drivers of United States mail wagons quit their jobs in New York. More than a score of them deserted their wagons at the Mail-street entrance of the General Postoffice after they had received word that the strike had been decided upon. It is an echo of the trouble over wages of some weeks ago. The leaders of the men say that the agreement the bosses made with them has not been lived up to. They also demand an increase of wages.

DON'T FEAR TAINTED MONEY

Foreign Mission Board Refuses to Pass Judgment on Rockefeller.

(Associated Press Cablegrams.)

SEATTLE, September 16.—The American Board of Foreign Missions has decisively tabled Dr. Washington Gladden's resolutions about tainted money.

Dr. Washington Gladden has persistently introduced resolutions into various Congregational bodies that the church refuse to accept "tainted money," his principal object of attack being John D. Rockefeller, who some time ago offered \$100,000 to carry on mission work. Dr. Gladden is a noted divine and publicist.

NEW YORK LIFE WAS A HEAVY CONTRIBUTOR

NEW YORK, September 16.—Vice president Perkins of the New York Life Insurance Company testified that the company made a contribution of \$48,000 to the Republican campaign fund, being fearful of Democratic success.

CRISIS AWAITED.

CHRISTIANIA, September 15.—A crisis in the present negotiations between Sweden and Norway is expected tomorrow with great anxiety.

AIRSHIP FLIES SEVEN MILES IN BRISK WIND

PORTLAND, Ore., September 16.—Baldwin's airship made a flight of seven miles today, and proved manageable in spite of a brisk wind.

COURT-MARTIAL DELAYED.

VALLEJO, September 15.—The court-martial trying Captain Lucien Young has adjourned till tomorrow, owing to Judge Gear's not being ready to proceed.

YELLOW FEVER HAS REACHED INTO OHIO

CINCINNATI, O., September 16.—Yellow fever has appeared here.

LIBERAL IS HONORED.

MOSCOW, September 16.—Prince Troubetskoy, the foremost liberal Russian leader has been elected rector of the University of Moscow.

AFTERNOON REPORT.

MARE ISLAND, September 15.—The court-martial called to try Commander Lucien Young in connection with the disaster on the gunboat Bennington, opened here today.

PARIS, September 15.—Count Debraza, the famous explorer of French West Africa, is dead.

ST. PETERSBURG, September 15.—An imperial ukase abolishing retaliatory duties on American imports has been gazetted here today. The provisions will be put into effect immediately.

BERLIN, September 15.—There has been three deaths from cholera here and eight new cases are reported.

GUNDUSHU PASS, September 15.—The armistice between the armies of Oyama and Linevitch takes effect on September 16. A neutral zone will be established between the armies. A similar armistice regarding the Korean border, will be arranged.

PIGEONS FROM THE BENNINGTON

OMAHA (Neb.), September 8.—Two of the carrier pigeons formerly belonging to the ill-fated Bennington found their way to the kitchen of an Omaha hotel today. The pigeons were part of an order received this morning by the Murray Hotel from a local commission company. While dressing the pigeons

it was noticed that two of them were of a much larger size than the ordinary domestic pigeon, and on a leg of each of the large pigeons was a stout metal band branded with the words "U. S. carrier pigeon." On one of the bands is scratched "U. S. Bennington." The consignment of pigeons was received by the commission firm from Sioux City, Ia., but further than this they could not be traced. The birds evidently have been in cold storage for some time, and it is possible they may have been received in a shipment from the Pacific Coast.—Chronicle.